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Subject: Re: Satellite orbit procedure

Posted by [Liam E. Gumley](#) on Wed, 06 Mar 2002 14:58:19 GMT

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Richard Lord wrote:

- > I'm looking for a procedure that takes as input the parameters of a
- > satellite orbit (Kepler orbit parameters), and outputs so-called
- > statevectors. A statevector contains the x,y,z and vx,vy,vz
- > coordinates at any particular point in time.

I looked into this problem a while ago. The most convenient solution I found was the "Satellite Tool Kit" (STK) software freely available from

<http://www.stk.com/>

The free version of their software accepts Keplerian elements (e.g. NORAD TLE format) and computes the corresponding state vectors propagated forward in time.

The STK software is unrelated to IDL.

Cheers,

Liam.

Practical IDL Programming

<http://www.gumley.com/>

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